

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	288	anneal\$4 WITH (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2") and (titanium nitride OR TiN OR TiNite).ab.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/05 15:35
L3	71	anneal\$4 WITH (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2") WITH (ammonia OR "nh.sub.3") and (titanium nitride OR TiN OR TiNite).ab.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/05 15:36
L7	23	(second OR subsequent) near3 (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2") WITH (temperature OR degree OR celisus OR centigrade) and (titanium nitride OR TiN OR TiNite).ab.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/05 15:48

L8	26	("5173327"   "5175126"   "5192589"   "5246881"   "5273783"   "5334264"   "5364522"   "5376590"   "5380566"   "5382809"   "5480684"   "5487922"   "5514425"   "5576071"   "5747116"   "5834068"   "5906866"   "5972179"   "5989652").PN. OR ("6086960").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/05 15:51
L9	13	(second OR subsequent) near3 (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h. sub.2") WITH (temperature OR degree OR celisus OR centigrade) WITH (higher OR increas\$4 OR high)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/05 15:59
L10	37	(second OR subsequent) near3 (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h. sub.2") SAME (temperature OR degree OR celisus OR centigrade) WITH (higher OR increas\$4 OR high)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/05 16:00
L11	10	(second OR subsequent) near3 (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h. sub.2") AND (different) WITH (temperature OR degree OR celisus OR centigrade) WITH (substrate OR susceptor)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/05 16:04

L12	228	(second OR subsequent) near3 (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2") AND (temperature OR degree OR celisus OR centigrade) WITH (substrate OR susceptor)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/05 16:05
S37	6596	reaction limited	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/03 13:57
S38	0	reaction limited tetrachloride	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/03 13:57
S39	999	reaction limited and tetrachloride	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/03 13:57
S40	99	reaction limited and tetrachloride SAME ammonia	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/03 13:57
S41	39	reaction limited and tetrachloride SAME ammonia and (vapor near5 deposition OR CVD)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/03 13:58
S42	68	anneal\$4 WITH second near4 (titanium nitride OR TiN OR TiNite) SAME (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2")	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/03 22:51
S43	8	anneal\$4 WITH second near4 (titanium nitride OR TiN OR TiNite) SAME (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2") and (titanium tetrachloride OR "ticl.sub.4") and ammonia	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/03 22:55

S44	72	(RTP OR post adj4 anneal\$4) WITH (titanium nitride OR TiN OR TiNite) SAME (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2")	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/03 23:18
S45	297	(RTP OR post adj4 anneal\$4 OR rapid near3 thermal OR RTN) WITH (titanium nitride OR TiN OR TiNite) SAME (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2")	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/04 01:24
S46	194	(RTP OR post adj4 anneal\$4 OR rapid near3 thermal OR RTN) WITH (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2")	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/04 01:24
S47	78	(RTP OR post adj4 anneal\$4 OR rapid near3 thermal OR RTN) WITH (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2") and (titanium nitride OR TiN OR TiNite).ab.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/04 01:24
S48	0	(07/510307).APP.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/08/04 01:29
S49	466	(RTP OR post adj4 anneal\$4 OR rapid near3 thermal OR RTN OR heat\$4) WITH (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h.sub.2") and (titanium nitride OR TiN OR TiNite).ab.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/04 01:56

S50	1	(11/297939).APP.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/08/04 01:59
S51	11	("20010035241"   "20020001928"   "20020025690"   "20020190294"   "20030153145"   "20030168750"   "20030209748"   "20040233610"   "5591672"   "6245631"   "6281066").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/04 02:00
S52	2	(09/318807).APP.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/08/04 02:08
S53	12	("5119153"   "5232871"   "5393565"   "5534463"   "5591672"   "5601869"   "5723382"   "6013566").PN. OR ("6335277").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/04 02:08
S54	101	(RTP OR post adj4 anneal\$4 OR rapid near3 thermal OR RTN OR heat\$4) WITH (titanium nitride OR TiN OR TiNite) WITH (nitrogen OR hydrogen OR "n.sub.2" OR "h. sub.2") and (titanium nitride OR TiN OR TiNite).ab. and second near2 (titanium nitride OR TiN OR TiNite)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/08/04 10:56

**EAST Search History (Interference)**

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**8/ 5/ 2011 4:32:43 PM****H:\ EAST Workspaces\ Production****\ Murakami\_10584642\_titanium\_nitride\_film\_ratio\_ticl4\_nh3.wsp**